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PLEASE DIRECT CORRESPONDENCE TO OUR WARRENTON OFFICE

FACSIMILE TRANSMISSION COVER SHEETDATE: April 13, 2005

TO: Examiner Brian J. Sines
Group Art Unit 1743
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

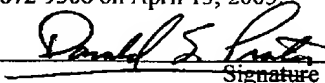
RE: U.S. Patent Application No. 09/752,656
For: SENSORS WITH IMPROVED PROPERTIES
Our Ref.: 00140 (3600-333)

FROM: Luke A. Kilyk, Esq. 

FAC. TEL. NO.: 1-703-872-9306

NUMBER OF PAGES (INCLUDING THIS COVER SHEET): 30Items Attached: Amendment --27 pages
Fee Transmittal Sheet -- 1 page
Petition for a 2-Month Extension of Time -- 1 page

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office, Fax No. 1-703-872-9306 on April 13, 2005.

Donald S. Prater
Name (Print)
Signature

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PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL for FY 2005

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant Claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 450.00)

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit AccountDeposit Account Number
Deposit Account Name

03-0060

Cabot Corporation

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
1011	2011	300	150	Utility filing fee	
1012	2012	200	100	Design filing fee	
1013	2013	200	100	Plant filing fee	
1014	2014	300	150	Reissue filing fee	
1005	2005	200	100	Provisional filing fee	

SUBTOTAL (1) (\$ 0.00)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	20**	X	
Multiple Dependent	3**	X	

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
1202	2202	50	25	Claims in excess of 20	
1201	2201	200	100	Independent claims in excess of 3	
1203	2203	360	180	Multiple dependent claim, if not paid	
1204	2204	200	100	**Reissue independent claims over original patent	
1205	2205	50	25	**Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$ 0.00)

** or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

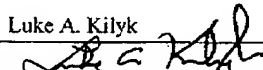
Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	2051	130	65	Surcharge - late filing fee or oath	
1052	2052	50	26	Surcharge - late provisional filing fee or cover sheet	
1053	1053	130	130	Non-English specification	
1812	1812	2,520	2,520	For filing a request for ex parte reexamination	
1804	1804	920*	920*	Requesting publication of SIR prior to Examiner action	
1805	1805	1,840*	1,840*	Requesting publication of SIR after Examiner action	
1251	2251	120	60	Extension for reply within first month	
1252	2252	450	225	Extension for reply within second month	450.00
1253	2253	1020	510	Extension for reply within third month	
1254	2254	1590	795	Extension for reply within fourth month	
1255	2255	2,160	1,080	Extension for reply within fifth month	
1401	2401	500	250	Notice of Appeal	
1402	2402	500	250	Filing a brief in support of an appeal	
1403	2403	1,000	500	Request for oral hearing	
1451	2451	1,510	755	Petition to institute a public use proceeding	
1452	2452	500	250	Petition to revive - unavoidable	
1453	2453	1,500	750	Petition to revive - unintentional	
1501	2501	1,400	700	Utility issue fee (or reissue)	
1502	2502	800	400	Design issue fee	
1503	2503	1,100	550	Plant issue fee	
1460	2460	130	65	Petitions to the Commissioner	
1807	2807	50	25	Processing fee for provisional applications	
1808	2808	180	90	Submission of Information Disclosure Stmt	
8021	2021	40	20	Recording each patent assignment per property (times number of properties)	
1809	2809	790	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	2810	790	395	For each additional invention to be examined (37 CFR 1.129(b))	
1801	2801	790	395	Request for Continued Examination (RCE)	
1802	2802	900	450	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 450.00)

SUBMITTED BY

Name (Print/Type)	Luke A. Kilyk	Registration No. (Attorney/Agent)	33,251	Telephone	1-540-428-1701
Signature		Date	April 13, 2005		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Donald S. Prater

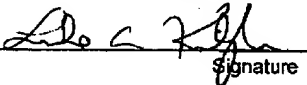
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PTO/SB/22 (12-04)

Approved for use through 7/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

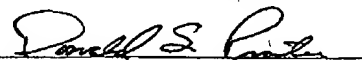
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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) FY 2005 <i>(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)</i>		Docket Number (Optional) 00140 (3600-333)	
Application Number 09/752,656		Filed December 29, 2000	
For: SENSORS WITH IMPROVED PROPERTIES			
Art Unit: 1743		Examiner: Brian J. Sines	
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.			
The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):			
<input type="checkbox"/> One month (37 CFR 1.17(a)(1))	<u>Fee</u> \$ 120	<u>Small Entity Fee</u> \$ 60	\$ _____
<input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$ 450	\$ 225	\$ 450.00
<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$ 1,020	\$ 510	\$ _____
<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$ 1,590	\$ 795	\$ _____
<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$ 2,160	\$ 1,080	\$ _____
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.			
<input type="checkbox"/> A check in the amount of the fee is enclosed.			
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.			
<input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account.			
<input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>03-0060</u> .			
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.			
I am the <input type="checkbox"/> applicant/inventor.			
<input type="checkbox"/> assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).			
<input checked="" type="checkbox"/> attorney or agent of record. Registration Number <u>33,251</u>			
<input type="checkbox"/> attorney or agent under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____			
 Signature		April 13, 2005 Date	
Luke A. Kilyk Typed or printed name		(540) 428-1701 Telephone Number	
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.			
<input checked="" type="checkbox"/> Total of <u>1</u> form is submitted.			

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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